GENQUIP Power Products

Genquip Gi3300 DSP Inverter Generator

Owners Manual

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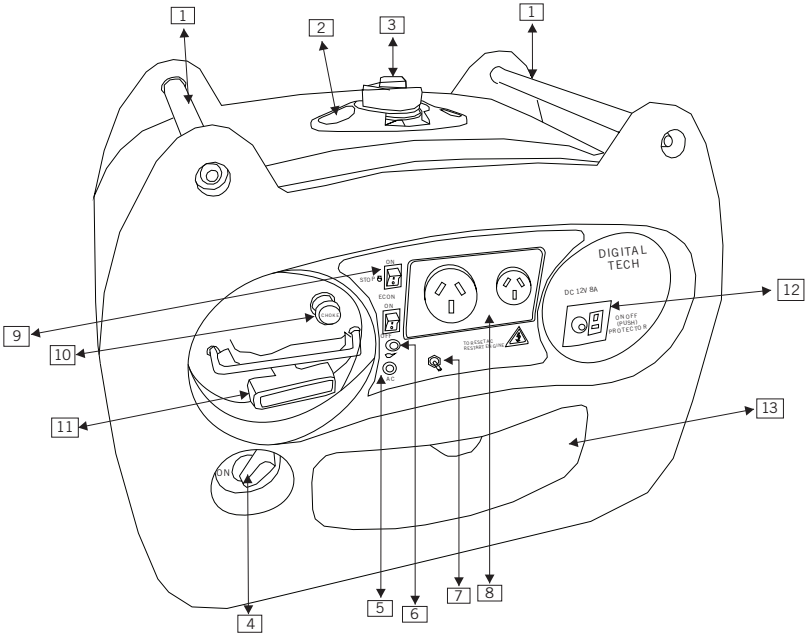
Control Function



Description and Control Panel Key

1. Carrying Handles
2. Fuel Level Gauge
3. Fuel Cap and Vent
4. Fuel On/Off Switch
5. AC Ready Pilot Light
6. Oil Warning Light
7. Ground (Earth) Terminal
8. 240 Volt Sockets
9. Engine On/Off Switch
10. Choke Knob
11. Recoil Starter

Pre Operation Checklist

Note: Pre-operation checks should be made each time the generator is used.

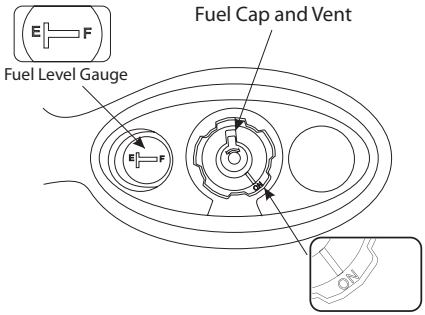
Fuel System

Make sure there is sufficient fuel in the tank. The engine must use regular unleaded petrol only and the fuel tank capacity is 7 litres.

Refueling And Fuel Level Gauge

To refuel, remove cap and fuel slowly until fuel gauge indicates full. Apply fuel cap and turn fuel vent to the ON position.

"F"	Full
"E"	Empty



WARNING: Fuel is high flammable and poisonous.

DO NOT fill above the top of fuel filler or it may overflow when the fuel heats up and expands.

Wipe up any spilled fuel immediately.

After refueling, make sure the tank cap is tightened.

Engine Oil

Make sure the engine oil is at the upper level of the oil filler hole. Add oil as necessary. Recommended oil for most climates is 10W30. Engine oil quantity is 600 millilitres.

Control Function Continued

Oil Warning System

If the oil level falls below the safe operating level, the engine will stop automatically. Unless you refill with oil, the engine will not start again.

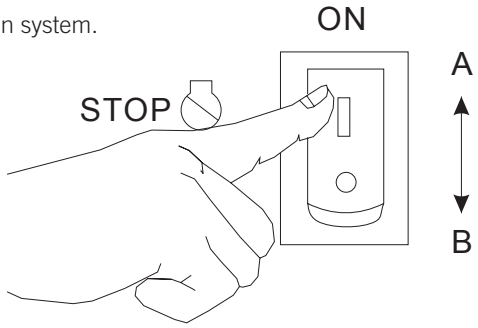
Note: If the engine stalls or does not start, turn the engine switch to “ON” position and then pull the recoil starter. If the oil warning light flickers for a few seconds, the engine oil is low. Add oil and restart.

Engine Switch

The engine switch controls the ignition system.

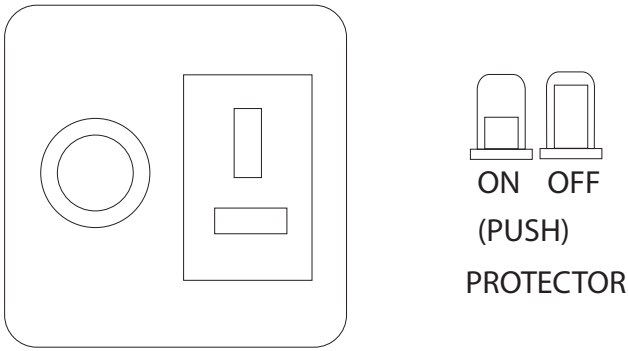
A. Ignition circuit is switched on.
The engine can be started.

B. Ignition circuit is switched off.
The engine will not run.



DC Protector

The DC Protector turns of automatically when the loads exceeds the generator rated output.



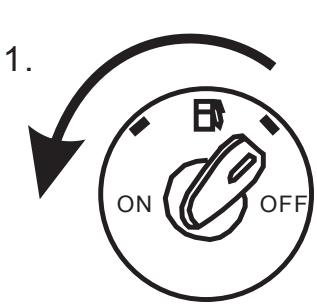
Note: If the DC Protector trips to the OFF position, press to reset. Reduce the load to the specified generator output if the DC protector turns off. If it turns off again, consult the authorized dealer.

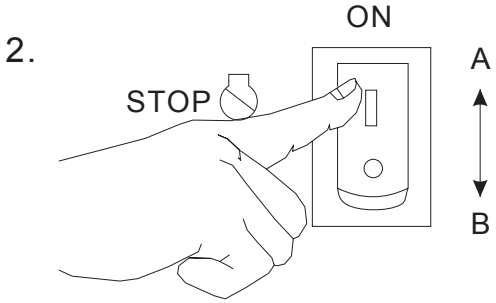
Operation

Starting The Engine

Note: Before starting the engine, do not connect any electric devices.

1. Turn the fuel switch lever to the “ON” position.
2. Turn the engine switch to the “ON” position.

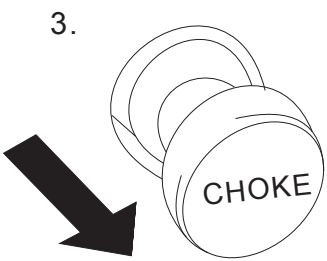


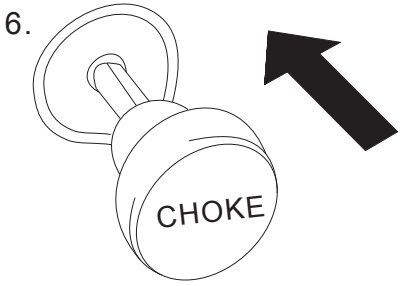


Note: Sometimes the choke is required to start a warm engine.

3. Hold the choke knob fully out.
4. Pull slowly on the recoil starter until it is engaged, then pull it briskly.
5. After the engine starts, warm up the engine until the engine does not stop when the choke knob is returned to the original position.
6. Push the choke knob back to the original position.

Note: When starting in cold conditions (below 5˚C) run the engine with choke applied for two to three minutes to warm up motor.





Periodic Maintenance

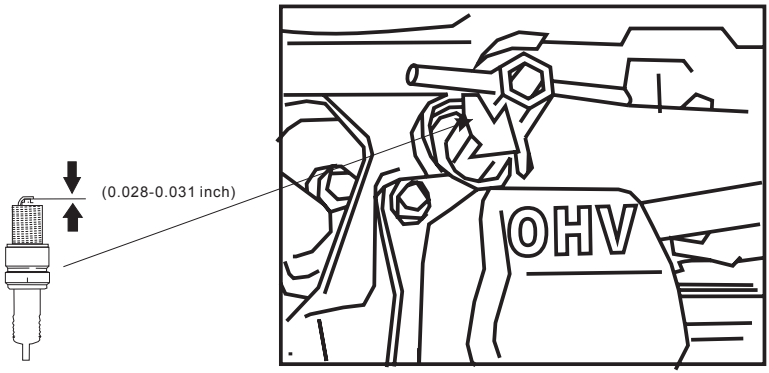
Item	Attention	Pre-operation (Daily)	1 Month or 20 hours	3 Months or 50 hours	6 Months or 100 hours	12 Months or 300 hours
Spark Plug	1. Clean Adjust 2. Replace			1		2
Valve Clearance	Check Adjust					✔
Engine Oil	1. Check 2. Replace	1	2*	2*	*	*
Air Cleaner	1. Check 2. Replace		1	1		2
Fuel Filter	Replace					✔
Clean Spark Arrester-Screen					✔	
Recoil Starter	Check operation	✔				
Choke Handle	Check operation	✔				
Fuel System	Check hose condition look for leaks	✔				✔
Fittings Fasteners	Check and Tighten		✔	✔		
Cooling System (Air)	Check for obstructions	✔		✔		
Exhaust System	Check for obstructions	✔				

* First 20 hours & then every 50 hours

Spark Plug Inspection & Oil Replacement

You should periodically remove and inspect the spark plug.

1. Check for discoloration and remove the carbon.
2. Check the spark plug type and gap.
    - Standard electrode color: Tan Color
    - Standard Spark Plug: BPR4ES(NGK)(F7RTC)
    - Gap: (0.028-0.031 inches)
3. Install the spark plug.
    - Spark Plug Torque:14 lbs. -Ft.



Engine Oil Replacement

1. Place the machine on a level surface and warm up the engine. Then stop the engine.
2. Remove the rubber cap on the bottom..
3. Place an oil pan under the engine. Remove the drain bolt
4. Open the oil filler cover as shown and remove the oil filler cap so that the oil can be completely drained.
5. Check the drain bolt, gasket, oil filler gap and O-ring.
6. Reinstall the oil drain bolt.-Drain Bolt Torque:12 Ft. lbs.
7. Add engine oil to the upper level.

• Recommended oil for most climastes: 10W30

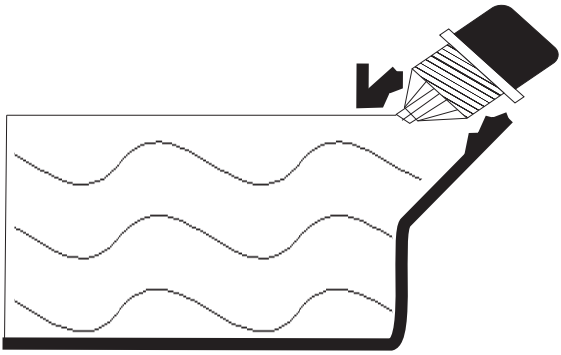
• Engine Oil Quantity: 600 millilitres

CAUTION: Be sure no foreign material enters the crankcase.

8. Install the oil filler cap.
9. Install the rubber cap on the bottom.

CAUTION: Be sure to install securely to prevent from falling off during operation.

10. Close the oil filler cover.



Fuel Filter

Do not smoke or have an open flame in the vicinity of the fuel and solvent.

1. Stop the engine:
2 Clamp the fuel line with the clip.
3 Replace the fuel filter.

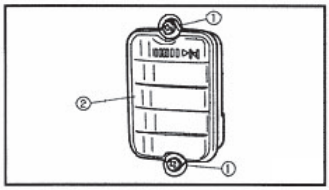
Fuel Tank Filter

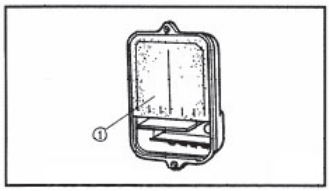
1. Remove the fuel tank cap and filter.
2. Clean the filter with solvent, if damaged, replace.
3. Wipe the filter and insert it.

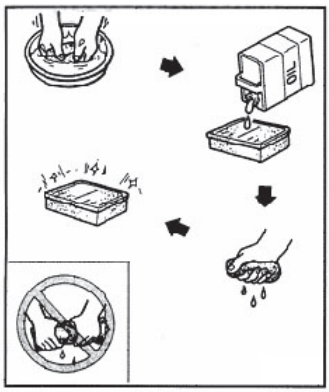
WARNING: Be sure the tank cap is securely tightened.

Air Filter Maintainence

1. Remove black side cover
   (4 screws, opposite exhaust outlet side)
2. Unscrew bolts
3. Remove cover
4. Remove foam air filter
5. Clean filter in foam filter
   cleaner and dry
6. Re-oil with filter oil
7. Squeeze out excess oil
   Do not wring out
8. Reit to machine and reassemble.







Valve Adjustment

Note: Valve adjustment should only be performed on a cool engine.

1. Remove back case, then take off valve cover.
2. Pull the starter rope gently and set the piston in top dead center (Use a stick in the spark plug hole measure the depth).
3. Insert a feeler gauge into the gap between rocker and valve to measure the valve clearance.

Valve Clearance

Intake:	0.1mm	(0.004 in)
Exhaust:	0.1mm	(0.004in)

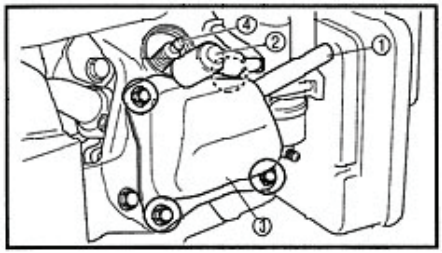
4. If adjustment is necessary, proceed as follows:

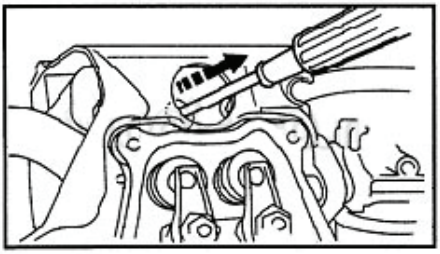
a. Hold rocker axis using the wrench and loosen the lock nut.

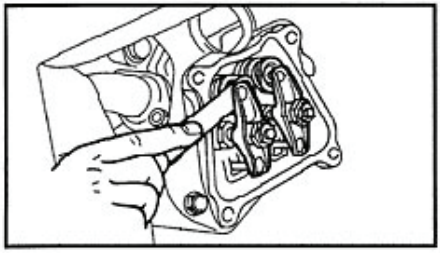
b. Loosen the lock nut of rocker axis to gain the specified intake and exhaust valve clearance.

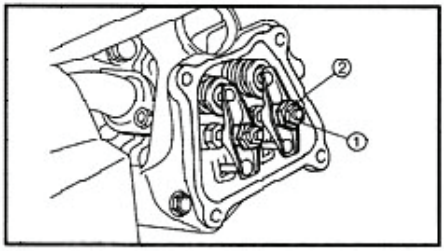
c. Hold rocker axis using a wrench and tighten the lock nut.

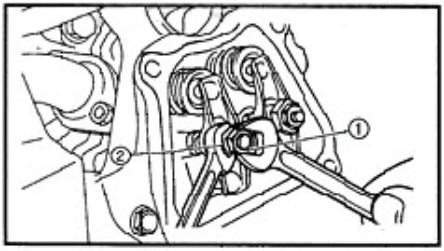
d. Check the clearance of valve after adjustment.











Genquip Safety

"Genquip values your safety and the safety of others when using your Genquip generator"

General safety

It is important to read and understand your owner's manual before operating your Genquip generator.

Safety tips for safe operation

- Know where the controls are and how they operate, for the startup and shut off procedure.
- Know the location of the fuel shutoff and how it operates.
- Genquip generators must always be used in a well ventilated area.
- Your Genquip generator is not weatherproof.
- To prevent electrical shock, make sure your generator is properly grounded.
- Operate the generator on a level surface.
- Never refuel your Genquip generator whilst the engine is running.
- Always allow sufficient time for the generator to cool down before refueling.
- Always refuel the generator in a well-ventilated area.
- Keep all flammable materials and fuel away from the operating generator.
- Caution of the hot exhaust must be observed as a generator can easily start a fire; always locates your generator where its exhaust will vent safely.
- Avoid getting burned. Many generator parts radiate heat that is sufficient to burn you during operation.
- Only a licensed electrician should hard wire your Genquip generator.
- Turn off all equipment powered by the generator before shutting down your generator.
- Never over load your Genquip Generator, if unsure about the power requirements consult a licensed electrician.
- Generators can be noisy, so when working around the generator it may be advisable to wear appropriate ear protection.
- Keep children away from your Genquip generator at all times.
- Never permit anyone to operate a Genquip generator without proper instructions.

DANGER: Only competent and qualified electricians should connect wiring to this equipment; all connections must comply with all applicable Australian Standards and electrical codes.

Activity/Procedure If you do this ...	**Potential Hazards** This could happen ...	**Risk**	**Corrective Action** You can prevent by ...
Operating generator in unventilated or enclosed area.	Generator may over heat. Carbon Monoxide (CO) poisoning from the toxic engine exhaust.	2 1	Operate generator in a well-ventilated area. Do not operate in an enclosed location.
Operate the generator in a careless/reckless manner.	Unsafe operation could lead to serious injUry to you & others.	2	Review and understand all the operating instructions and warnings supplied by manufacture
Refueling the generator while engine IS running.	Petrol vapors are highly flammable & could cause a fire or explosion, which can cause serious injury.	2	Always shut down engine and allow engine to cool sufficiently. Open fuel cap slowly and have an appropriate fire extinguisher present.
Over filling with fuel or fuel spillage while refueling.	Fuel that is spilled whilst refueling can cause fire or explosion.	2	Open fuel cap slowly. Do not over fill fuel tank. If fuel spillage has occurred during refueling, clean the spillage completely and allow sufficient time for any fuel vapors to dissipate.
Tampering with the factory preset engine settings.	Generator could over heat and engine could over speed, which may result in a fire causing injury.	2	Never attempt to tamper with factory settings, if in doubt contact Genquip.
Failure to use the generator grounding point and correctly ground the generator.	Generator unit could become electrically charged and could cause electrocution.	1	Make sure the generator is connected /grounded correctly.
Exceeding the load capacity of the generator by attaching to many items, or items with very high load ratings.	Could overheat some items or their attached wiring causing fire or electrical shock.	1 2	Understand load ratings. Make sure that the total of electrical loads for all attachments does not exceed the load rating of the generator. Refer to a licensed electrician if in doubt.
Operating generator with guards or protective covers removed.	Exposed moving parts and hot surfaces could cause injury.	2	Never operate the generator without the factory fitted guards or protective covers.

Activity/Procedure If you do this ...	**Potential Hazards** This could happen ...	**Risk**	**Corrective Action** You can prevent by ...
Contact with hot surfaces such as engine, exhaust components.	Could result in serious burns.	2	During operation, touch only the control surfaces. Shutting the generator down and letting it cool sufficiently. Keep children away from generator during and immediately after operation.
Operating generator to close to buildings or placing objects close to the muffler exhaust can cause.	Heat buildup that could cause generator to overheat and the possibility of fire. Objects close to generator may be damaged due to close proximity.	2	Ensure that the generator is sufficient distance from buildings or objects allowing heat and exhaust emissions to dissipate freely.
Smoking around the generator.	Fire. Explosion. Serious Injury.	2	Do not smoke around the generator under any circumstances.
Operating whilst wet or Cleaning the generator when in operation can cause.	Electrocutionasdfa	1	Never operate the generator whilst wet or expose to damp conditions. Clean the generator only when shut down and cooled down completely. Do not spray water directly on or near any electrical items. Use a damp cloth to Wipe over generator to keep clean.
Operating generator on an uneven surface may cause.	Engine to seize and over heat due to improper lubrication. Fuel spillage, which may cause fire or explosion resulting in serious injury.	2	Always operate generator on a level & hard surface.
Moving the generator whilst in operation.	Fuel spillage, which may cause fire or explosion resulting in serious injury.	2	Always shut down generator and allow it to cool completely before moving.
Transporting generator.	Fuel spillage, which may cause fire or explosion resulting in serious injury. Oil spillage, which may cause slippage.	2	Ensure fuel tap is switched off and the fuel cap is affixed firmly. Always transport the generator in an upright position. If transporting over a long distance drain fuel from tanks.
Using the incorrect fuel &/or oil type.	Misfiring of engine, which may result in engine parts separating from main body resulting in serious injury.	2	Ensure you check that you are using correct oil and fuel types.

Genquip Operating Procedure

Visual Inspection

Carefully inspect the generator set before you first use it, look for the following discrepancies:

- General appearance and cleanliness
- Loose or broken wires and defective connections
- No oil or fuel pooling around generator
- Check fuel filter
- Missing covers
- Oil level
- Fuel level
- Air filter is not dusted and is free of debris
- Generator grounded
- Fuel cap on

Start up

- Disconnect any electrical devices from the generator.
- Generator is on a level surface.
- Exhaust is free from obstructions.
- Fuel shut tap is on.
- Always use fresh fuel.
- Engine switch is in the on position.
- Choke is in the open position.
- Return choke to the closed position once running (petrol model only).

Shutdown

- Make sure all electrical devices, are disconnected from generator.
- Turn the fuel tap to the off position.
- Allow the generator to cool sufficiently before moving or storing.

Maintaining your Generator

Cleaning

Keep the generator set clean and free of foreign material. Clean generator at least once monthly. A soft brush may be used to loosen caked-on dirt. Use a soft, damp cloth to wipe away loosened dirt. To clean dirt from hidden or remote areas of the unit, use dry, filtered, low pressure air or vacuum system.

CAUTION: DO NOT use a forceful spray of water to clean the generator. Water can penetrate generator's electrical system, which could reduce insulation resistance. Possible generator failure may result.

Storing or Transporting

- Turn fuel tap off.
- Storage Petrol models - drain carburetor and fuel tank.

Servicing

- First service 20 hours
- Service intervals thereafter 50 hours

If operating in hot dusty conditions oil and air filters must be checked daily and service intervals should be every 10 hours initially and every 25 hours thereafter.

Specifications & Dimentions

GENERAL

OVERALL LENGTH	585 mm
OVERALL WIDTH	420 mm
OVERALL HEIGHT	470 mm
DRY WEIGHT	30 kg.
GROSS WEIGHT	32 kg.
FUEL TANK CAPACITY	7 litres
NOISE LEVEL	53-58 dB (at 7 metres)

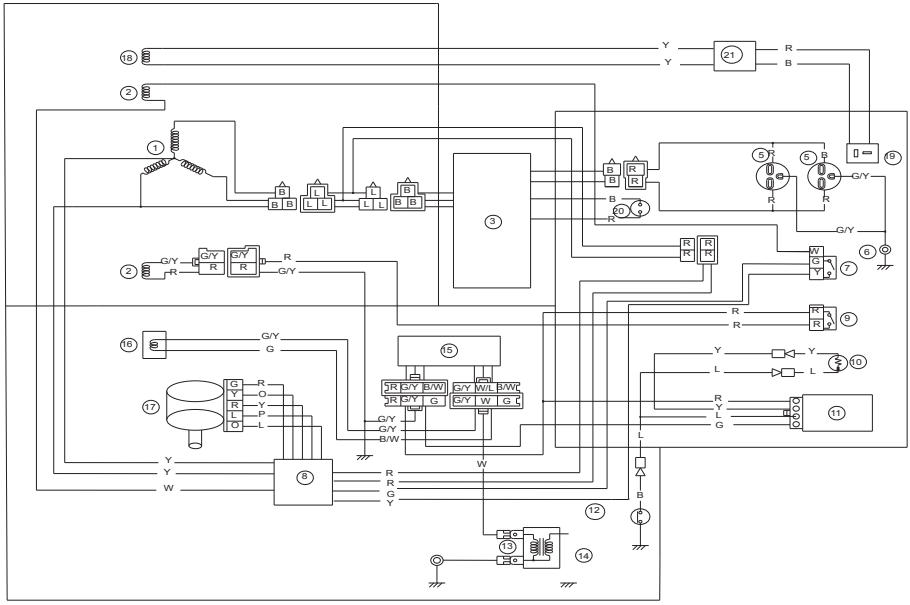
GENERATOR

TYPE	AC OUTPUT, Multistage permanent-magnet generator
RATED OUTPUT	3000 Watts
MAX OUTPUT	3300 Watts
FULL TANK OUTPUT	13500 Watts
RUN TIME AT 1/2 RATED LOAD	8.5 hours
RUN TIME AT RATED LOAD	4.5 hours
POWER CONVERSION RATE	85-92%
RATED VOLTAGE	240 V
RATED FREQUENCY	50 Hz
RATED CURRENT	13A
DC OUTPUT	12V/8A

ENGINE

TYPE	166F, OHV, AIR-COOLED, 4 - STROKE
STARTING SYSTEM	RECOIL START
CYLINDER ARRANGEMENT	INCLINED, SINGLE CYLINDER
BORE X STROKE	66mm X 50mm
IGNITION SYSTEM	CDI
SPARK PLUG TYPE	BPR4ES (NGK) / F7RTC
GAP	0.8 (0.028 - 0.031) inches
DISPLACEMENT	171cc
RATED OUTPUT	4.9HP at 3600 r/min
FUEL	Unleaded Petrol
ENGINE OIL QUANTITY	600 ml

Wiring Diagram



Color code

B Black
Br Brown
G Green
L Blue
O Orange
R Red
W White
Y Yellow
P Pink
B/W Black/White
G/Y Green/Yellow
W/L White/Blue

1/ Main coil
2/ Sub coil
3/ Control unit
20/ AC indicator light
5/ AC receptacle
6/ Ground (Earth) terminal
7/ Economy Control Switch
8/ Accelerator controller
9/ Engine switch
10/ Oil warning light
11/ Oil warning unit
12/ Oil level gauge

13/ Ignition coil
14/ Spark plug
15/ AC-CDI unit
16/ Pulsar coil
17/ Stepping motor
18/ Charge coil
19/ DC receptacle
20/ Overload indicator light
21/ Ballast

Troubleshooting

Engine Won't Start

Carefully inspect the generator set before you first use it, look for the following discrepancies:

1. Fuel system, engine is not getting fuel.
   - No fuel in tank... Supply fuel.
   - Clogged fuel line... Clean fuel line.
   - Foreign matter in fuel filter... Replace fuel filter.
   - Clogged carburetor... Clean carburetor.
2. Engine oil light flashes
   - Oil level is low... Add engine oil.
3. Electrical system
   - Engine switch to "ON". Poor or no spark.
   - Spark plug is dirty... Replace sparkplug.
   - Faulty ignition system... Consult dealer.
4. Compression Insufficient
   - Worn out piston and cylinder... Consult dealer.

Generator Won't Produce Power

Stop the engine, then restart. If A/C lights continue to flash consult your dealer.

Storage

Long term storage of your machine will require some preventive procedures to guard against deterioration.

Drain The Fuel

1. Remove the fuel tank cap. Drain the fuel tank into an approved gasoline container using a commercially available hand siphon. Then, install the fuel tank cap.

WARNING: Fuel is highly flammable and poisonous. Wipe up any spilled fuel immediately.

2. Drain fuel from the carburetor by loosening the drain screw on the carburetor float chamber.
3. Turn the fuel cock lever to "OFF". Start the engine and leave it run until it stops. This will burn any remaining fuel in the carburetor.

Engine

1. Remove the spark plug, pour about one tablespoon of SAE 10W30 or 20W40 motor oil into the spark plug hole and reinstall the spark plug. Turn over engine several times (with ignition off) to coat the cylinder walls with oil.
2. Pull the recoil starter until you feel compression. The stop pulling. (This prevents the cylinder and valves from rusting).
3. Clean exterior of the generator.
4. Store the generator in a dry, well- ventilated place, with the cover placed over it.
5. The generator must remain in a vertical position when stored, carried or operated.

Notes

www.genquip.com.au

Genquip Warehouse
45 Riverside Road
Chipping Norton NSW

Call 1300 730 716